

[J] ABSTRACT

Saucer shaped vehicle, with VTOL capabilities, having another tapered toroidal body inside. Between the upper half of the toroid and the outer skin lies a circular wing,. Air will be drawn horizontally from the opening situated at the bottom outer edge of the skin, and directed inward to a lower cone in the duct via two counter rotating fan assemblies.

Compressed air will pass up and over the horizontal wing causing lift.

Inner design will utilize the inside part of the skin as a high pressure area, top part of the wing as low pressure, where a vacuum will be generated.

Similar configuration will be applied to the under part of the wing and top of inner toroid.

Air will be diverted under the inner toroid to a secondary airfoil, with a similar design, causing additional lift, then returned to the duct to be reused, thus saving energy.

[K] DRAWINGS

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01 - Air Intake and Exhaust

02 - Air/Gas Direction

03 - Duct

04 - Counter rotating plurality of propellers

05 - Directional vanes

06 - Motor propulsion assemblies

07 - Outer skin of vehicle also functioning as a compressed air
guide

08 - Inner wing or wings

09 - Inner structure and storage areas (fuselage)

10 - Structural support members

- 11 - Lower airfoil
- 12 - Nozzles - 3 each - Yaw and Pitch control
- 13 - Turbine air intake
- 14 - Turbine - Horizontal flight
- 15 - Compressed gas exhaust tubing
- 16 - Exhaust nozzles - 2 each
- 17 - Directional vanes - 2 each
- 18 - Cone - lower
- 19 - Cone - upper
- 20 - Horizontal control stabilizers
- 21 - Electrical Solenoids or stepper motors
- 22 - Housings for solenoid or stepper motor
- 23 - Plunger mounted to Sealing Ring
- 24 - Seals